

AMENDMENT TO THE CLAIMS

Please enter the following amendments to the claims without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents as follows:

Please cancel claim 23 without prejudice.

1-15 (Canceled)

16. (Previously Presented) An adenovirus (Ad) with novel vector tropism and ablation of native Ad receptor tropism due to the expression of a fiber replacement protein, said fiber replacement protein comprises:

- a) an amino-terminal portion comprising an adenoviral fiber tail domain that associates with the penton base of the adenovirus;
- b) a fiber-fibritin chimeric rod trimeric protein that provides trimerization function; and
- c) a carboxy-terminal portion comprising a targeting ligand.

17. (Previously Presented) The adenovirus of claim 16 wherein the fiber-fibritin chimeric rod trimeric protein is a fiber-fibritin-6His chimera.

18. (Currently Amended) The adenovirus of claim 16 wherein the fiber-fibritin chimeric rod trimeric protein is a fiber-fibritin-RGD-6His chimera.

19. (Previously Presented) The adenovirus of claim 16, wherein said fiber replacement protein retains trimerism when a sequence encoding a targeting ligand is incorporated into the carboxy-terminus.

20. (Previously Presented) The adenovirus of claim 16, wherein said fiber replacement protein is soluble.

21. (Currently Amended) ~~The~~ An adenovirus of claim 16, ~~wherein said fiber replacement~~ (Ad) with novel vector tropism and ablation of native Ad receptor tropism due to the expression of a fiber replacement protein, said fiber replacement protein comprises:

- a) an amino-terminal portion comprising an adenoviral fiber tail domain that associates with the penton base of the adenovirus;
- b) a fiber-fibritin chimeric rod trimeric protein that provides trimerization function and contains isoleucine trimerization motif; and
- c) a carboxy-terminal portion comprising a targeting ligand.

22. (Currently Amended) ~~The An~~ adenovirus ~~of claim 16, wherein said fiber replacement (Ad) with novel vector tropism and ablation of native Ad receptor tropism due to the expression of a fiber replacement protein, said fiber replacement protein comprises:~~

a) an amino-terminal portion comprising an adenoviral fiber tail domain that associates with the penton base of the adenovirus;

b) a fiber-fibrin chimeric rod trimeric protein that provides trimerization function and contains neck region peptide from human lung surfactant D; and

c) a carboxy-terminal portion comprising a targeting ligand.

23. (Canceled)

24. (Previously Presented) The adenovirus of claim 16, wherein said targeting ligand is selected from the group consisting of physiological ligands, anti-receptor antibodies, cell-specific peptides and single chain antibodies.

25. (Previously Presented) The adenovirus of claim 16, wherein said adenovirus comprises a transgene.

26. (Currently Amended) The adenovirus of claim 25, wherein the transgene is a herpes simplex virus thymidine kinase gene.

27. (New) The adenovirus of claim 21, wherein said targeting ligand is selected from the group consisting of physiological ligands, anti-receptor antibodies, cell-specific peptides and single chain antibodies.

28. (New) The adenovirus of claim 21, wherein said adenovirus comprises a transgene.

29. (New) The adenovirus of claim 28, wherein the transgene is a herpes simplex virus thymidine kinase gene.

30. (New) The adenovirus of claim 22, wherein said targeting ligand is selected from the group consisting of physiological ligands, anti-receptor antibodies, cell-specific peptides and single chain antibodies.

31. (New) The adenovirus of claim 22, wherein said adenovirus comprises a transgene.

32. (New) The adenovirus of claim 31, wherein the transgene is a herpes simplex virus thymidine kinase gene.

AMENDMENT TO THE DRAWINGS

Please enter the following amendments to the drawings, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents as follows:

Kindly replace the previously filed drawings for Figures 1-19 with the enclosed formal drawings for Figures 1-19.